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Issues of Adventure Coder come out during the middle of each month. The deadline for contributions is the 25th of the previous month. Software and hardware is greatly appreciated for review purposes no

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#### CONTENTS

3 Editorial

4 Letters

6 The A-Z of RPG

9 Transport in Adventures

10 The Dreamer

15 Crossword

16 Doors in GAC adventures

17 Sentinel Chart

21 A Whole STAC of Problems

23 Back Issues

24 Trans 'Time Tunnel' holidays

25 Machine Coding your adventures Fart 3

30 Investigating PAW

32 Useful addresses

35 Utilities available

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#### Bigger and better!

Ah - the summer's ending! I can hear the sound of computers being unwrapped again, adventure games being played again, the winter months approaching once more... what better time to tackle that game you've been wanting to write all year - or maybe what better time to finish that game you've been struggling to write during the summer! Either way, the good news is this issue is the biggest yet! The increase in size is all down to you, the reader. Many, many thanks to all people who've taken the time to write in with your articles and other contributions over the last month. Without these, "Adventure Coder" would be about five pages thin! Don't forget I'm still looking for more or your pages on whatever aspect of adventure writing interests you. Never feel your articles are too slight to be of use to anyone else - how do you know that if you keep them to yourself? The only way to get a good response from a routine you may have written is to send it in for me to print! That way, you not only achieve instant fame. but your routine will be seen by other writers, for whom it may be just what they have been trying to write themselves. You'd be surprised how one writer will have written a routine yet someone else has written the same thing in a shorter and better way, one that would never have occured to the first writer. No two minds think alike, it's important that we all "club together" and share our knowledge of adventure writing. Otherwise the standard of home-written adventures will be lower as writers will have had to work everything out themselves, not always in the best way. So don't be shy, send me your routines! Or be forever selfish...

A handy tip has been passed on to me from George March's Hunthank's Hun! - to do with seeding in contributions. If you want to send me some Am sheets ready for direct insertion into the magazine, the some and the second of the second of the second of the second be no chance of the pages suffering from the errects of folds. And AS envelope is otherwise okay, but any more than one fold on the sheets and the folds will show up when photocopied, maybe even chipping the letters off the page and ruining your sheets, deerge now sends me his letters that the seal roll, and it pastes down beautifully?

Next month sees a group of excellent PAW routines from Larren Rose, more maynes from Mathrew Conway, my own article on atmosphere, plus a host of features including... bet you can't wait... our first competition, with mega exciting prizes to be won!! Hake sure your acticles, artwork, adverts, and anything else you wish to send in... 'I'm looking to expand the magazine again, let's get it to abpace.



# R Moicha

· ...

First off, well done to Chris
Hester and Adventure Coder for
an excellent first issue.
Hopefully the adventure writers
of this world will spot this
great little magazine and keep
it alive and kicking for a very
long time. I for one will be
contributing on a regular basis
(time permitting!).

There is, however, one thing I would like to point out to readers. And that is the listing of Mastertonic's address in the off the thing of the thin

Last but not least a little message to a programming mate and maybe a game for the Whatever happened to..? section. Hark - where's "Posssed" you've been promising you'll finish (or is that start it!?) for the last four or five years!
Best or luck.

Shaun Allaton, 61 Goldcrest Road, Ipswich, Suffolk, IP2 OSF.

P.S. If any readers need any, help with writing with PAW then please feel free to contact me at the above address enclosing a tyes you guessed it!) SAE.

I get the reeling he likes the magazine! I wonder if Mark is the same programmer I know who should have his spoof adventure "inbanana Jones" out by now, surely? (He's also supposed to be starting to playtest a game I had published

last year!!) As for the Hark that Shaun knows, he tells me he'll finish "Posessed" as soon as he can afford a Rampack for his ZX81, okay?

Dear Coder,

The select band (perhaps a little too select) of people writing what might be termed etandard single player adventures are what 'Coder' is all about and for. But in view of the fact that lack of readers was one of the factors that led to the demise of 'Adventure Contact', the predecessor 'Coder', perhaps it should expand it's ambit to ... include in it's brief Multi-User Games (MUGs), Role-Playing Games (RPGs) and even Play-By-Mail (PRM) games. particularly computer and hybrid (that's computer plus human) moderated ones, as it would not unreasonable to consider that these fall at last loosely into the fold of adventure games. The likes of games "Tir Na Nog", "Dunn Durrach" and "Marsport" also surely qualify to be included in this broader renit.

Hight I even go as far as to suggest (probably to crise of "sacriledge") that since there is no forum for writers of other types of games, these could be given a chance to contribute to 'Adventure Coder' (perhaps then renamed 'Games Coder') as a (somewhat radical I agree) way to expand this enterprise to

viable size.

Another radical suggestion I have is that moves should be made towards the formation, under the auspices of 'Coder', of a consortium/association of independent adventure producers, if for no other reason than the content of the cont

turn several small voices into contribute it's contents to the one larger one to promote our cause.

On the subject of MUGs. may have seen details of the launch of "Bloodstone". revolutionary new multiplayer telecommunicative adventure game. From what I have read of it this would seem to embody the principles for a 'participative fiction' game using fully described objects and rule based enaction of commands, as laid out in my article 'Interactive Fiction' in issue 14 of 'Adventure Contact'. This game implements fully described objects by way of a component object hierachy, where nearly all objects are made up from several sub-objects themselves similarly built up from yet other components) to the extent of say a rose bush having individual petals to flowers, leaves and thorns on stems and branches. Whether it has rule based as opposed to imperative actions I do not know. I don't think it has gone online yet, but as I don't have a modem I can't play it even when it does, I would be enormously grateful if anyone who does get to play it to write in with a review at the earliest.

Further on unreleased items from Gilsoft, Tim Gilberts was I understand working on a 'PAW Advanced Users Guide' (or something of that ilk), which was to be of the form of generalised answers to the most frequently asked questions of the "how do I go about doing such-and-such" type. The role and contents of this was to have transferred to 'The Forge' (Gilsoft's own aborted attempt at filling the shoes of 'Adventure Contact', not coincidentally named and similarly aborted effort Shaun Allaton). Presumably the contents for this are lying in some wordprocessor file, and it is my hope that either Gilsoft can be persuaded to either publish the book(let) .. originally envisaged or pages of 'Coder'.

Gerald Kellett, 28 Queen Street, Stamford, Lincolnshire, PE9 1QS.

Since an increasing number of adventure games are now incorporating RPG elements, I welcome any material on this subject - infact Matthew Conway has already agreed to write RPG-related stuff for me. Check out his 'A-Z of RPG' in this very issue! As for PBM games. I can't see how they directly link to computer adventures in a vav that is of use in this magazine. You either play a home computer game or you fill out turnsheers to play a PBM. Having said that, a lot of FBMs are much like adventures in their gamepiay (fantasy lands, magic, etc.) and 'Adventure Probe' once had a PBM column written by Tony Collins, which I confess I enjoyed while it lasted, I'll throw the hall out to your courts - anyone fancy writing a PBM page?

"My comments on 'Adventure Coder' ... being interested in adventure writing it was just what I wanted. The articles were well written and informative (many fanzines think they can sacrifice good grammar 'speling' (sic)). | especially liked the GAC+ review as I had heard of it, but it seemed none of the professional magazines had!" - Mitch Pomfret. Games, Cheshire.

"Thanks very much for my second issue of Adventure Coder. I am very impressed with it... I found the article about STAC especially informative." - Sue Medley, Kent.

"I am always willing to learn and although I do not use any of the commercial utilities I am sure I will find something of interest in Adventure Coder." -Tom Frost. Tartan Software, Montrose.





## The A-Z Of RPG





RPSs, or role-playing games if you didn't already know it, have their own peculiar lings which seems to put many people off what is otherwise a most factionating hobby. If you are one of those people, here's a glossary of the most common terms along with a layman's definition which should translate into waterway laymanse you means.

Adventure: a torturous experience devised by your OM designed to deliver the maximum possible ego boost when you fail to complete it and he delivers a

step-by-step guide as to what you should have done.

Attributes: the building blocks of your character which show exactly how weak

Campaign: an ongoing series of adventures revolving around one thing,

generally the GM's twisted sense of fun.

Character: any being capable of attacking, stealing or generally making someone else's life as unenjoyable as is possible.

Character sheet: the piece of paper you always forget to bring with you to gaming sessions.

geming sessions.

Combat: the simplest way a GM can kill your character, Trolls usually
featuring quite frequently.

Critical: a generally nasty attack which the GM has decided will cut your character into two because he didn't like the way you rolled the dice.

Dexterity: an oft-encountered attribute showing just what a klutz your

character is.

Die (1): the correct singular of dice but encountered about as frequently as a

compassionate and humane GM. <u>Dis</u> (2): what your characters will tend to do quite frequently. <u>Dungeon:</u> a convenient place to hold an adventure due to its being underground, <u>dank</u> and thus quite suitable for ambushing unwary characters.

Encumbrance: how much your character is carrying, generated by counting the mumber of items this amounts to and then multiplying by your shoe size. Enemy: the other characters in your party.

<u>Pumble</u>: a chance for the other players to have a good laugh as your character's attack turns into a determined attempt to decapitate himself.

Games Easter: the nice man who runs your adventures for you and to whom you had better be really polite if you ever want to see your character get on in the world.

(MR): a common abbreviation for Games Mester used by those who have no respect for such exalted personages and, for some strange reason but totally unconnected, also seem to lose more characters in a game than anybody else.

<u>Health</u>: an attribute showing approximately how long it is until your character dies but rarely completely accurate due to acts of God (like accidently standing on the GM's foot).

Hits: the number of times the GM has decided that he doesn't like your character.

<u>Initiative</u>: something your character lacks most of the time.
<u>Intelligence</u>: see <u>Initiative</u>.

Level: a numeric representation of how close you are to being able to insult your ON without him being able to kill your character in one stroke.

- Melee: a ferm which allows your GM to kill your character and practise his French at the same time.
- Mon-player character: a character the GM decides is going to try and kill
- yours.

  MPC: a type of glue produced from horse bones, but also see Non-player character.
- <u>Parry</u>: a vain attempt to stop someone slicing your character in half by by jabbing your character's puny dagger in the same direction as his enemy's two-handed battle-axe.
- enemy's two-handed bettle-axe.

  Party: your character plus five others all out for his blood.

  Patron: a small adventure idea found in numerous Traveller supplements which
- geves the GM the bother of having to create an adventure for you.

  P(: a member of the constabulary, but also see Player character.

  Player: either a maschist or someone with a serious death wish.

  Player character; a character you by a player who decides it is soine to try.
- and kill yours.

  Profession: what your character does when he isn't getting himself killed on some darmed fool adventure.

#### Reactions: see Initiative.

- Role-playing game: a game in which one person tries to impose his ego upon five other people who are intent upon doing the same thing themselves. Round: a period of time equal to how long it takes one Troll to kill one player character with one very large club.
- RPG: a chemical which destroys ozone, but also see Role-playing game.
- Scenario: the same as an adventure but a flashier name which gives players the impression that the GM knows what he is doing because he can speak Italian.
- Session: as long as it takes for the players to get bored with the GM's underhand tactics whereupon everybody simultaneously gets up and leaves, Skill: what you think your character is and what everybody else thinks your
- character isn't. Solo-adventure: a convenient way to cheat because you're the only one playing. Solo-adventure: a convenient way to cheat because you're the only one playing. Spread: the one thing you'll want to swap all those gold pieces for when being
- chased by a very hungry Troll.

  Spell: a convenient device to allow self-confessed loonies to create rabbits
  out of thin air.
- out of thin air.

  <u>Statistics</u>: the one thing you'll need to be good at if you want to be a GM,
  although a sadistic streak also comes in handy.
- Strength: an attribute which seems to rise in inverse proportion to Intelligence.
- Supplement: yet another to the RPG you thought was only going to cost you £15.
- So much for the terminology, what about the games? There are so many to choose from that it can be daunting trying to pick out the good ones from the turkeys. For your convenience, however, here is the definitive guide to fantagy FROS.
- Advanced Dungcone & Dragong: old and selvard, the original set running to a meager 15 or an barefule menuals has just been ungraded to a second edition which has been changed on much its mother probably wouldn't recognise it. Only advisable for moningic players or rules lawyers who think that searching through 55 annuals for a table detailing the weight of a chicken is fun.
- <u>Dunceons & Dragons</u>: the grandeddy of them all and a much simpler version of <u>Advanced Dunceons & Dragons</u> (who would have genemed that?), this RFO seems to have been forgetts with of lete in the upgrading of its big brother (com?). A good way to state for legalization but anyone with more than two years' role-playing experience who is still playing it deserves to be called a sentimental old fool.

- <u>Middle-Earth Role Playing</u>: Enown as MERP to its friends, this RPG recreates the world of J.R.R. Tolkien as only an imbecile could - boring, complex and unfriendly. The system itself, a simplified version of Rolemanter, could pass as a language in its own right. Generally avoid.
- Warhammer Pantany Roleplay: The newest of the big fantany RFGs, this is backed by arguably the best adventures of all time in the shape of the <u>Energy</u> <u>Sithin campaign</u>. Detailed for old-honder or simple for beginners, it too seems slightly neglected by its producers, Games Workshop this time, but things are promised.

#### If you prefer science-fiction then perhaps ...

- Parancia: the one RPS geared towards giving the GM some fun, this one was greatly changed (for the worse) for the second edition but still remains a good laugh which is, after all, the only reason you should play it. Not for people who dislike losing six characters per adventure but certainly for every other sentient being in the namelactiverse.
- Star Trek: combines the background of the TV series with the complexity of an A-level chemistry sextbook. Only buy if if you're a real Trekic but be prepared to steal the important bits and fudge the rest. Experienced
- Traveley: one of the first and probably still the best, its latest form,

  Magnitude:

  Magn

#### Por horror freaks ...

Call of Cthulhu: based around the works of H.P.Lovecraft, the system is good and the background is excellent. The adventures cose tension and the whole feel of the game is of the kind which sadly died a couple of years ago. If this background at all interests you, beg, borrow or steal a conv.

#### Or if you're a wargamer ...

Warhamer Pantasy Battle/Marhamer 40,000; ame game different actings, the first in medieval times and the accord in the year 40,000 (never) be prepared to buy about 3,000 lead miniatures to play them but endless endowment thereafter.

Others to look out for include superhero RFGs [DC Heross, Marvel Superheross, Solden Herose), post-holocaust RFGs (Filight 2,000) and the miscellaneous RFGs (GURPS mong others). Some are okay, some are turkeys. None, it has to be said, set the world on fire but you could do worse.

There you go, then. The idiot's guide to RPGs. Though, to be honest, you'd have to be an idiot not to play them.



The author of this article accepts no liability at all for slandering other people's favourite RPGs.



### Transport in Adventures



by Shaun "Spud" Allaton

A lot of games nowadays seem to implement at least one mode of transport, be it a Cab, Car, Bus or in a few cases, such as in "Sherlock". Trains. Over the coming months I'll be looking at each section and showing how it can be done using PAU.

We'll start though, with the simplest of the four - the car. First of all we'll need to set aside three locations. Locations one and two will be, let's say, an office building and the player's home, and location three will be inside of the car. I've shown the example without making it so the player has to start the car although this could easily be implemented by creating an object called a Car Key and checking that when a DRIVE TO command is entered that the player is carrying the key.

#### Flage

60 = The location where the car is

#### Messages

No.	Description							
1	1	was	already	in	the	car		

1	1	w	a	2	2	ı	r	•
2	Th							

- he car isn't here. 2 The car isn't he:
  3 Climb into what?
- 4 Climb out of what?
- 5 I drove
- 6 home.
  - to the office.
- 8 I was already here.
- 9 Drive where? A car stands before me

#### Response table/Process table @

CLIMB CAR PREP IN SAME 38 60 GOTO 3 DESC

CLIMB CAR PREP IN AT 3 MESSAGE 1 DONE

CLIMB CAR DDED IN MESSAGE 2 DONE CLIMB \_ PREP IN

MESSAGE 3 DONE

CLIMB OUT

AT 3 COF1FF 60 38 DESC NOTAL 3 CLIME OUT

MESSAGE 4 DONE



DRIVE . AT 3 PROCESS 3 DONE

Process table 1

Process table 3

SAME 38 60

MESSAGE 10

DRIVE HOME NOTEO 60 1 LET 60 1 PAUSE 100 MES 5

MES 6 DONE

DRIVE HOME MESSAGE 8 DONE

DRIVE OFFIC NOTED 60 2 LET 60 2 PAUSE 100 HES S MES 7

DONE DRIVE OFFIC MESSAGE & DONE

DRIVE MESSAGE Q DONE



That's all folks! Quite short and also simple. Next time I'll be looking at implementing cabs which, in my view is just as simple as the above (notice I'm doing the simple ones first?!). By the way, you can't wait until the next time or you have a few problems programming using PAW then drop me a line at 61 Goldcrest Road, Ipswich, Suffolk, IP2 OSF and please enclose a SAE.

#### The Dreamer

by Chris "letter of the month in TGM021" Hester



## PAW Prints





\* \* 0 NOTEQ 33 A COPYFF 33 133 COPYFF 34 134 COPYFF 35 135 COPYFF 36 136 COPYFF 43 143 COPYFF 44 144 COPYFF 45 145 NOTDONE

I've used value A, in the NOTED action above, to be the verb number of the word 'Again', or 'Repeat', etc. so you'll be able to see that all it does is, if any command that's entered into the game is NOT equal to the word 'Again', then this routine makes a copy of that sentences verb, and then ends the routine with a NOTDONE, thus telling PAW that the flag numbers have had copies made of them, but that the game isn't affected any, because it thinks that nothing has been done!

Now this section ithe business end! must be placed at the very

beginning of response, just in the same way that any LET 33 ? actions have to be placed 'before' the routines that they're transformed into:

\* \* 0 EQ 33 A COPYFF 133 33 COPYFF 134 34 COPYFF 135 35 COPYFF 136 36 COPYFF 143 43 COPYFF 144 44 COPYFF 145 45

And so what the routine does is, if the word 'Again' is typed, it copies the topies of the previous sentence's verb, nouns, adjectives, etc, back into the response table, and does what it's already done a second time round! Okay, but what if the word 'Again' is entered more than once? Very easy, as the \* 0 action in process 2 only works if the word 'Again' is NOT typed, so if it is, the \* 0 action in response just copies and re-copies back into itself what's already been done, for as many times as the word 'Again' is entered!

FIND  $_{0}$  WHATO LT 51 B NOTEQ 54 252 NOTEQ 54 253 NOTEQ 54 254 NOTE2 54 255 COPYFF 54 38 SYSMESS 68 ANYKEY DESC

Sysmess 68 = 'You wander round, until you find the \_!' This next routine's nearly the same as that above, just that the object hasn't been found yet, and is thus not created..

FIND \_ 1 WHATO LT 51 B EQ 54 252 MESSAGE 69 NEWTEXT DONE

Message 69 = 'Sorry, I can't find that, it must be hidden somewhere!' and stops any input with a newtext. This next be, is just as above, but if the object is worn, if so, then sys' 29 = 'You're already wearing the 1' is printed, newlined and newtexted.

FIND 2 WHATO LT 51 B EQ 54 253 SYSMESS 29 NEWLINE NEWTEXT DONE

And again, though if the object is carried this time..

FIND \_ 3 WHATO LT 51 B EQ 54 254 SYSMESS 25 NEWLINE NEWTEXT DONE

Also for this next one, but if the object is in the players location, with sys' 59 = 'But the \_ is already here!'

FIND \_ 4 WHATO LT 51 B EQ 54 255 SYSMESS 59 NEWLINE NEWTEXT DONE

But what if the player tries to 'find' any object which doesn't exist in the game, ie, anything which isn't recognised by these first four routines!

FIND \_ 5 SYSMESS 8 NEWLINE NEWTEXT DONE

Well this should take care of that, as this routine should only be encountered if the object in question is NOT a real item, and would printed and newlined, etc., and to finish off these FIND. Toutines, how about a little rearrangement of the werb, by making value C below, equal to the number of the werb by making value C below, equal to the number of the werb by making value C below have the words the state of the word by the words of the word 'SEARCH' in the words' table, a number higher than that of the word

SEARCH 0 PREP FOR LET 33 C

And now onto a few chages to issue one's EXIT routines, for a better, cleaner, 128 version (if you've plenty of menory left that is!) Its 'calling' routine from response is more, or less just the same as that found in issue one.

EXITS SYSMESS 62 PROCESS 4 NEWLINE DONE

The first thing we'll need to do is to define four new objects as the manes of the main compass directions (though there's absolutely) no need for weights of objects and their words to be used]), for example, sys' of the main compass self(s) 'in the space after 'exit(s)'; to make it so that the space after 'exit(s)'; to make it so that the space after 'exit(s)'; to make it so that the space after after

\* \* ZERO 31 LET 53 64

In process 1, just to get the look of things right, then in process 4 (called by the EXITS \_ routine in response) we could have for example..

\* \_ AT 4 PLACE 4 0 PLACE 6 0 PLACE 7 0

One routine of this type would be needed for each room available, and then to end the whole process..

LISTAT 0 DESTROY 4 DESTROY 5 DESTROY 6 DESTROY 7, etc..

For as many objects as the writer decides to use as direction names! And so, if the EXITS \_ were called whilst the player was in room 4, then the above routines in process 4 would give.

'Obvious exit(s) north, east and west.'

As the LET 53 64 action always places commas and an 'and' in any screen listings of objects if used! And next, how about what I believe to be the ultimate 'Oops' routines going, as the 'Oops' routine given in the PAWS technical manual (and possibly the one given in 'Adventure Contact' number 13, by Mr. Bryan Kitts, though I've never actually read it!) makes the use of ramsave/ ramload impossible, as the one in the manual uses an auto' ramsave in process 2, as an 'Oops', and stops the use of seperate ramsave/ramload routines, whereas the ones given here allow the use of both! So for the

#### \* \* 0 ZERO 66 RAMSAVE

very beginning of process 1 (or 2, depending on the writers tastes!) Which, just like that given in the manual, causes an automatic ramsave 'before' anything can be entered by the player, but only if flag 66 is zeroed! These next six routines are all for response.

RAMSA 0 ZERO 66 SET 66 RAMSAVE DESC

So if ramsave is typed, and flag 66 is nothing, ie, in 'Oops mode', the routine sets 66, ramsaves and describes the screen, but if 66 has already been set by the routine above, then it can't work a second time can it? And thus, if ramsave is typed whilst in 'ramsave mode' ...

RAMSA 1 NOTZERO 66 RAMSAVE DESC

This first ramload routine only works if 66 is set, ie, ramsave has been used, it then ramloads the game, and clears 66, putting the game back into 'Oops mode'!

RAMLO 0 NOTZERO 66 RAMLOAD 255 CLEAR 66 DESC

Yes, but what if the player tries to ramload whilst in 'Oops mode'? Well this routine should then print message A = 'But you can't ramload if you haven't ramsaved a position first!' and newtexts the game!

RAMLO 1 ZERO 66 MESSAGE A NEWTEXT DONE

And for our Oops action whilst in 'Oops mode', which works automatically at the start of the game, and ramloads from the auto' ramsaved position in process 1 (or 2).

OOPS 0 ZERO 66 RAMLOAD 255 DESC

And this last one of our six response routines, takes care of the problem, if a player tries to Cops whilst in 'ramsave/ramload mode', with message B = 'You'll have to ramload your already ramsaved position first!

OOPS 1 NOTZERO 66 MESSAGE B NEWTEXT DONE

Now to end with, here's a cute, little location finder for any objects that aren't in the same position as the player, so for response we could have ...

\* NOTEQ 33 A WHATO LT 51 B NOTEQ 54 252 NOTEQ 54 253 NOTEQ 254 NOTEQ 54 255 SYSMESS C PROCESS 5 NEWTEXT DONE

With 'A' being the werh number of the word 'remove', so that this routine won't interfere with the removal (or getting) of any items from a container, 'B' is the number after that of the last objects number, and sys' C = 'The is still in the ', please note the space after 'the', and process is concerned with the printing of the name of the objects container on screen, so for process is.

\* EO 54 D LET 51 G

. \_ EQ 54 E LET 51 F

With 'D' being the location number where the object is located, ie, as container-room number, and 'd' being the object number of the container, but if you 128'ers with all that memory, wish to make your games a bit more friendly, how about, as in my second example, if we use 'E' as a you would then have to use some objects as the names of these rooms however, just as the EXITS \_examples above (with no need for weights, or words of objects to be used!), such as 'D' = room 5, 'G' = object now of the objects of the words of objects to be used!), such as 'D' = room 5, 'G' = object now of the objects of the words of objects to be used!) such as 'D' = room 5, 'G' = object now of the objects of the words of objects to be used!)

\* EO 54 E MESSAGE F

So, again with 'E' being a non-container, normal room number, and message 'F' being the name of the room printed, instead of an object used, and to end this process, we'll need a little routine like the one below, with 'H' = '!,' for the twin ' E D54 D/E routines already given, which prints the name of the object-container/ location where the object in question is contained?

MESSAGE H DONE

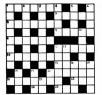
And as always, you can either contact me here via the 'Coder', or at..

93 ROBERTS STREET, NEWCASTLE UPON TYNE, NE15 6BE

For any comments, complaints, help that you need, or hopefully what we're looking for is help you can give to your fellow writers it mean holding butto your own routines may help you make your own games look help the property of the prope

So good bye 'till next month!





Crossword by C H

#### ACROSS

- 1) Observed: an uncoated cake?
- 7) Wet software house (5) 8) Criminal (7)
- 9) The key to dreaming (5)
- 11) Heavenly (6) 12) Prevent (5)
- 14) Take over a new country (8)
- 15) Where all bands play on (5) 20/ Flaced against - because
- tired? (6) 21) Splits up (7)
- 23) Poem (3)
- 24) Negative (2) 25) Total (3)

#### Solutions to last month's crosswords

PROBES GACKED L E E O R R A ADD NOONE I BEING ONESTAR TIE Q T R MOUSETRAF SOU I H I GAS TRAFFED Y SCORE E REALM T A URN N B 1 5 E s MEANIE OLEVEL

#### DOWN

- 1) Highly unlikely, mate! (2,6) 2) Someone you can't trust with secrets (4.4)
- 3) Window dressers, pull yourselves together! (8)
- 4) Tiny specks (4) 5) Not there (4)
  - 6) The same card! (4)
  - 10) Angered (7) 12) Value something (6)
- 13) Where you take a sick pet (4)
- 16) Smallest particle (4) 17) Where Adam met Eve (4)
- 18) False hair (3) 19) Immorality (3)

L

N

D

- 20) Initials for holy study (1.1)
- 22) Get up and -- something! (2)

2 TRANSMUTATION UV R RAIN AND PINE DEAR OPUS A ION R BRED EVER 1 0 B S COPY SECT V ERA H SEAT MEET EVEN ICE FURS

EXTRAORDINARY

## Doors in GAC adventures

A door obviously serves a major purpose in any adventure, be it computer adventure or role-playing game, that is to bear progress until some specific action is taken to bypass it. Usually this entails the location or the correct key to unlock it, thus sending the player off on a secondary quest which can involve all manner of problems and purpose, and this is the example which it vill use. Nowever, they have purpose and the player does not know this, still seen like a problem of the solved, thus sending higher off on a wild goose chase for a non-existent key whilst the real path forward lies somewhere eight entirely it to ould be a close in it's our right, giving information in the correct steps are taken; it could be a dangerous monater in the correct steps are taken; it could be a dangerous monater in the correct steps are taken; it could be a dangerous monater in the correct steps are taken; the volume of the could be a dangerous monater.

However, before using doors in your adventures, think carefully, are they important enough to make the menory expenditure worthunity. Using the ST version or GAC where nearly 300K is available for use as well as the ability to accessed sizes its one thing, but the humble well as the ability to accessed sizes its one thing, but the humble doors using about 300 bytes, I for one do not think that there we economical enough to deserve use. (Better quit the article now them, Matthew I = E0 This is purely a personal opinion though, and the rest matter than the state of the sta

There are two ways of using doors in GAC or which only one is presented here because it is easier to code. The first is to use a marker to indicate whether a door is either open or closed and/or a district of the control of the con

The simplest set-up where doors are concerned is that where an unlockable door (let open or closed only) controls access between two rooms. Here we need to use four objects to represent that doors one in the control of the control

#### Objects

No.	Description		Starts	
			Starts	at
	a closed door in the north wall	255	1	
	an open door in the north wall	255	0	
3	a closed door in the south wall	255	2	
- 44	an open door in the south wall	25.5	0	

#### Local Conditions

#### Room Line Statement

- 1 1 IF ( VERB [ OFEN ] AND NOUN [ DOOR ] AND HERE 1 ) 1 SWAP 2 3 SWAP 4 MESS ( You open the door ) WALT END
  - 2 IF ( VERB [ OPEN ] AND NOUN [ DOOR ] ) HESS [ It's already open ] WAIT END
    - 3 IF ( VERB [ CLOSE ] AND NOUN [ DOOR ] AND HERE 2 ) 1 SWAP 2 3 SWAP 4 MESS [ You close the door ] WALT FIND
  - 4 IF ( VERB [ CLOSE ] AND NOUN [ DOOR ] ) MESS [ It's already closed ] WAIT END
  - 5 IF ( VERB ( NORTH ) AND HERE 2 ) GOTO 2 WALT END
  - 6 IF ( VERB ( NORTH ) ) MESS ( The door is closed) ] HALT END
  - 2 1 IF ( VERB [ OPEN ] AND NOUN [ DOOR ] AND HERE 3 > 1 SWAP 2 3 SWAP 4 MESS [ You open the door ] WAIT END
    - 2 IF ( VERB [ OPEN ] AND NOUN [ DOOR ] ) MESS [ It's already
      - open 3 WAIT END

        3 IF ( VERB ( CLOSE ) AND NOUN ( DOOR ) AND HERE 4 ) 1 SWAP 2
      - 3 SWAP 4 HESS [ You close the door ] WAIT END
        4 IF ( VERB [ CLOSE ] AND NOUN [ DOOR ] ) MESS [ it's already closed ] WAIT END
      - 5 IF ( VERB ( SOUTH ) AND HERE 4 ) GOTO 1 WAIT END
      - 6 IF ( VERB [ SOUTH ] ) MESS [ The door is closed! ] WAIT END

Now all you have to do is insert the conditions for locking and unlocking, which now shouldn't be so difficult should it?

#### Sentinel Chart

#### by Chele H.



- 1) "Meanie Meanie" Billy Idol
- 2) "One More Tree" Phil Collins 3) "Somebody's Watching Me" - Rockwell
- a) "Fun in Hyperspace" Roger Taylor
  5) "The Only Way is Up" Yazz
- 6) "Don't Give Up" Peter Gabriel
- 7) "Sentry Bloody Sentry" U2 8) "I. Robot" - Alan Farsons Project
- 9) "Landscape Of Confusion" Genesis



## DIGITAL DYNAMITE

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- . Graphics Adventure Created adventures:
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  - . Arcade Adventure games:

  - Platform games; Shoot-'em-ups created using the Shoot 'Em Up Construction Kit; . Shoot-'em-ups which are all your own work:
  - . Pinball tables: . ANY other type of game:

  - . ANY utility program (e.g. Sprite Designers, Music Creators, etc.); . DEMOS which are highly original; . MUSIC.

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You will feel successful knowing that a program which you wrote is a major reason why people are buying a software package. You will gain satisfaction from the knowledge that people are using and enjoying a program which you have created. Also, you will receive payment for a program which, possibly, hasn't seen the light of day for quite a while.

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Using a medium sized good quality program as an example, a contributor can expect to receive approximately £20-00 for EVERY 100 disks or tapes sold.

Should we achieve as few as 1000 sales then this contributor would earn themselves £200-00, which is great for a program which would otherwise be gathering dust amongst their tape or disk collection.

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#### Our Guarantee To You

We GUARANTEE that you will be paid promptly EVERY MONTH while the package containing your program sells. We are not like some other software companies, we believe that our contributors are the MOST important people and regular payment IN FULL ensures that they will continue to send their programs to us in the future.

#### Go For It

Send us your programs today, WHAT DO YOU HAVE TO LOSE?

Our first package will be ready very soon, so DON'T DELAY, POST TODAY and your program could be on it.

You don't even need to spend ages writing the instructions. All w require is brief, clear information so we can assess the program fully.

Send your programs to: Keith McLeman
Digital Dynamite submissions

Digital Dynamite submissic 54 Watermill Road FRASERBURGH Grampian Scotland AB4 5RJ

Remember, your talent and your hobby could be making you money and all for the price of a postage stamp. POST YOUR PROGRAMS NOW.

le relona

Keith McLeman

Partners in Digital Dynamite are: Russell Barbour-Keith McLeman



## A Whole STAC Of Problems By Matthew Conway



#### Part The Second: What You See Is What You Get

Right then, you've read my article on getting the most from Special Condition 17 and so now your adventure opens with a beautifully-designed title page which draws the player into the game immediately. Re marrels at its assented value, reads the on-screen messages, presses a key to access the adventure proper and...

Soed god! What's that? The artistic title page vanishes to reveal a poorlypresented, semi-illegible location description which immediately destroys the expitivating atmosphere you strived to attain. The player's estimation of your adventure suddenly drops by 1000% and he wonders if he hean't bought a turkey after all.

Well, okey, maybe a slight exageration there, but the point remains valid. Baving slaved away to produce a perfect introduction, there's nothing your than showing your electmess by leaving the player with a first location description which leaves a lot to be desired. The point of this article is to try to help you avoid this easily-found pitfall and instead give your adventure a much better presentational look.

In fact, this can be achieved very easily with what are, generally, only small shanges. There is one large routine, which I'll show you in a moment, but even this is relatively straightforward and easy to implement.

#### The shorts first, though:

 Always make sure that you place a <u>clear-screen</u> character at the start of room descriptions, both long and short. This is achieved by pressing <u>Shift-Relig</u> followed by <u>Shift-Relig</u> and results in the locations being printed at the top of a blank acreen - much nester than having to search through piles of text just to find where you are.

2) Similarly, always add a Control—J followed by Shift-Help and Return at the start of the You can also see message because this makes the list of available objects more conspicuous and saves the player having to search through the end of the location description for it.

3) If at all possible, use 80-column text because this halves the depth of any text printed on the acreem, consequently making it much neater. It also cute down on the amount of untidy serolling which takes place. However, it's better to use 40-column text with a legible font than 80-column text with an Illegible font so be careful.

4) Always use a cursor of size 7, ie: don't tamper with the <u>cursor</u> command: a solid square is easier to follow than a thin line.

5) Pinally, always check the message or location text you have entered by seeing what it will look like in the actual adventure. STAC can and will print brackets and quotes at the end of one line and the text they enclose at the start of the next and nothing can be worse than seeing this type of error. If necessary, quagle with the text so that everything appear on the same line.

Bight, now that that's over, I'll finally reveal the routine which I promised you earlier in this article and also in the last issue of Adventure Coder. It is guite long-winded for what it does, but it's simple enough when you think about it and it does the job well so I'm sticking with it! Ameny, what it does is to mmarten up the results of the list command. Normally, this just prints all the objects in a room with comman between each pair and leaves you to tack

a full-stop on at the end. Unfortunately, things like You can also see a sword, a shield, a Hamp, don't smack of particularly good English. Fouldn't it be nicer if, instead, the message on the scores was You can also see a sword, a shield and a lamp, and the full-stop was sutomatically added? Well, here's the routine that does just that.

Low Priority Conditions
if werb "i" then special 19 wait

if cntobj 9999 = 1 then 1 addg 0 if cntobj 9999 = 2 then 2 addg 0 if cntobj 9999 > 2 then 3 addg 0 printg 0 firstob 9999 to room

until zero? firstob room if set? 1 and reset? 2 then message 9927 return

set 0
if visit? then descant room draw pictof room else descing room draw pictof room

pictof room visit as for Special Condition 14 from the first 'repeat' to the end if zero? firstob with then message 9916 message 9917 wait

as for Special Condition 14 from the first 'repest' to the end except
that all references to 'room' should be changed to 'with', the
reference to 'message 9913' should be changed to 'message 9916' and
a 'wait' should be added at the end

Phew! That isn't quite it yet, though. In addition to the above, you'll also have to enter the abort object descriptions into the messeges table as well as into the object table; these should becomy positions 9000 greater than the object number, so if object it abort description is a mergy then message 9001 would also be a mergy and so on. Make wure that these descriptions are 30 would not the most, though, otherwise you'll start getting characters out of the start of the sould be supported by the start of the sould be supported by the start of the sould be supported by the supported by the start of the sould be supported by the supported by th

I suppose you want to know how all this works Oh, very well then. The addition to Social Condition 17 sets up strings 1, 2 and 3 to contain the same text as messages 1, 2 and 3 respectively, ready for when a room description, Dolo Command or interest, Note that the line description, Dolo Command or interest, Note that the line to give in the State of the

15

19

For an example, we'll look at what happens if the player types look, A Low Priority Condition passes control to Special Condition 14. If the room is dark and the player has no source of light then the message It's pitch black. You can't see a thing, is printed and that's that. If the room is lit in some way, however, the long room description is printed and the routine really begins to do its job. If there are no objects in the room then, again, that's that and the routine is exited. If there are some, however, they are all moved to room 9999 which must not be used for any other purpose whatsoever unless you like your adventures to work illogically. Then, the message You can also see is printed on a new line. What is printed on the screen next depends on how many objects are in room 9999. If there is only one then its short description is printed followed by a full-stop; if two then the short description is printed followed by and because the next object must be the last; if three or more then a comma is added. Finally, objects are moved back into the player's location one at a time until none are left and the routine ends. The same general thing happens when a room is described upon entry or an inventory is acted upon.

Leoking at the listing, you may wonder why it is necessary to bother with strings at all and not simply text messages not the end of object descriptions. This is because STAC's willingness to processes at the start of lines rears its muly head and the only way to combat this is by placing the object description and the punctuation in the manue message, hence the addf which does just this.

By the time you're typed all that in, you may think that the result is pretty saintain and, ordinarily, I would agree with you. However, when you consider what you can do with STAC and the unlimited memory you can make use of due to being able to limit files, it should be obvious that it is the little things which add together to make a big difference. There's no reason why you shouldn't try to tidy us all of STAC's indeequactee and, in doing no, you may stumbly across a piece of code which proves to be invaluable. I have on many future.

Anyway, that's it for this article. If any of you out there have found a quicker way of doing what this article does, eard it to one immediately! It could save a lot of people a lot of typing and sanity... Of course, if anybody wants to get in contact with one because they have a useful routine, a question or merely a comment to pass on, please do. Just resember that an SSAE is necessary if you want a reply outside of these pages.

Matthew Conway, 1 St George's Terrace, Station Road, Lambourn, Berks RG16 7PW

#### Back Issues

These are available at the same price as a normal issue (see back page for full details about prices).

ISSUE 1 July 1989
GAC+review: PAV Frints: Machine Coding your adventures Fart 1:
Whatever happened to... "Valley Of The Source": GAC graphics article
on Colour, Ferspective, Ellipses and Rectangles etc! Fiction - "The
Burring Man":

ISSUE 2 August 1989
GAC pokes! GAC+ pokes! Two crosswords! FAW Frints! The Ultimate Guide
To Gacing! Machine Coding your adventures Fart 2! Whatever happened
to... sound-only games! STAC - Special Condition IT etc! The Adventure
how to write one! Updated utilities list! Updated useful addresses!

## Trans' 'Time-Tunnel' holidays present.. (courtesy of Geordie) The top-13 'Have-it-away-day' weekend breaks for 3 Male/ Female/ Other (delete where applicable)



- FRANCE: Thrill upon thrill to the glory of Madame Guillotine hacking her way through the decadent wimps of frog nobilty!
- RUSSIA: Unmask your own dissidenski, as you playski a K.G.B versionski of 'Jameski Bondski' for the weekendski!
- SOUTH AMERICA: Wince with curiosity as the aged, balding conquistadores pillage and sacrifice the friendly natives!
- CHINA: Join chairman Mac himself, at the head of the glorious 'long march' tour of the great-wall (graffitists please try the 'New-York subway' tour instead!)
- 5) AUSTRALIA: Aid the criminal settlers in decimating the indigenous 'Abo population'!
- 6) ENGLAND: Cringe in terror of the poll-tax under the governments Thatcherite Jackboot during the late 1980's. Join a wonderous E.T sceme to get the still unemployed off the dole figures!
- SICILY: Play the god-father, waging your own personnal vendetta against those nosey, wop neighbors, the Capone family!
- 8) GERMANY: 'Seig Heil' and do your impressions of the 'funny walks' with the rest of them, as you attend a genuine mid' 40's Nazirally, and then onto a tour of the gas-chambers (I-day only, autograph hunters welcome!)
- 9) SPAIN: Swoon in glorious horror, as you sweat it out on a mid' twentieth century package tour of the 'Costa del rippoff'!
- 10) AMERICA: Gasp as north and south beat each other to a pulp in this very uncivil war, before your very eyes!
- 11) SWEDEN: 'Hurdy Gurdy' it with the rest of the inarticulate, incoherent, inimical and other words beginning with 'in', foreigners, as you lace into the opposition in this lavish Norse 'V' Viking spectacular!
- 12) JAPAN: get your own back on the 'loadsamoney' Samurai butchers, as a Ninja, freeing the lowly Chinese farmers and fishermen from oppression!
- 13) SOUTH AFRICA: Lend a hand to the whities in enslaving the peaceful African-people in their own country, or join the 3-mile queues for second-hand, infected groceries, as a so-called revolutionary African under the 'fascist' oppression of P. W. Boths.

by Paul Brunvee

Welcome to a further article focusing on an alternative form of adventure creation. By salternative' I wish to describe an alternative to the current crop of adventure creating utilities such as the Quili, QCA and PAN, to name but three. Certain utilities have, by and large, acquired bad reputations from jaded reviewers due to a huge influx or design. These design shortfails can be divided into the two addressable areas of the atmosphere projected from the text, and possibly graphics, and the adventures interface for communication the input and parsing routines. There have been many adventures controlled in the past for having infearible parsers and listed

Certainly the likes of Level 9 and Magnetic Scrolls have developed very sophisticated parsing routines, and more recently adventure creating utilities now provide quite extensive facilities. As stated, however, I am offering an alternative to these utilities in the form of assembly languages which to my mind, allow the greatest scope for fire/billity, and originality.

I would urge people not to discount assembly languages for their so called 'complexities'. As with any programming language, it can be easily grasped given time and patience. Even with the adventure creating utilities, a programming language of sorts still must be learnt, albeit at a higher level than with assembly languages.

The coding I will present concerns the topic of command parsing, or that part of an adventure which attempts to 'understand' your typed instructions. Parsing covers the analysis of sentence structures and may not only concern 'keyword recognition' but also the grammar and semantics of the sentence. Grammatical parsing is concerned with the correctness of the sentence with regards to the laws of grammar. For example, the sentence "I'm going a waik" is more accurately represented as "I'm going for a waik". Semantics cover the actual type of the control of t

Parsing has been developed in certain programs to very fine levels with the main objective being able to fully 'understand' human speech, thus allowing a most natural human interface to a computer program, which in our case is the adventure.

The parsing I vill deal with concerns itself mainly with 'keyword recognition' and attempts to build a picture of what the adventurer is trying to do. Before starting coding, it is important to appreciate sentence structure and how sentences structure and how sentences are composed. For our purposes, not operate with the immediate environment. Thus at a most basic level we have the instantly recognisable VERB and VERB NOUN formats. As the adventurer wants to describe his or her actions more explicitly, we adventurer until of the sentence of the sentenc

Additionally, prepositions are used to further clarify actions. For example, in order to give a scroll to an innkeeper in a room full of people, you could specify "GIVE SCROLL", but a more accurate statement would be "GIVE SCROLL TO INNKEEPER". However, a point to note would be the situation where you meet the inkeeper on a deserted lane. In this instance "GIVE SCROLL" should suffice for the exchange to take place. This is where a certain 'intelligence' can be introduced into the adventure, but I digress slightly - back to the

To start with, I will consider a simple VERB NOUN format but in doing so will show how to cater for further word types by introducing modularity.

I will represent all word lists in lowercase ASCII fashion with such word separated by an asterisk, and each list terminated by a value 255. Using the asterisk as a word separater is not a very efficient sethod but is adequate for demonstration purposes. An alternative method is to implement a bit 7 overpunch (a what?? - E07 or the last character in sech word. Because each ASCII character byte is zero. The bit 7 overpunch involves setting this high bit to one, thereby having the character and end-of-word marker stored together in one byte. Note also that although the code will operate on the first four characters of each word. I have included the whole word in the lists so they may be referenced and used to construct where you may have pair of litts such einclient of duplicated data where your name have pairs of litts such einclient of duplicated data

"EXAMLOOKTAKEINVEUNLO..." together with,

The command to be parsed is held in continuous memory locations as uppercase ASCII values, and is terminated with the value 13. This area to be parsed may be created by the command input routine detailed in Part 2 of these articles, or even by a simple BASIC program poking the characters foreing the command directly into memory.

To briefly describe the operation of the following code: The body or the routine is labelled PARSE and for each word type issues calls to the label COMPAR in which all of the word comparisons are made. Upon entry to the COMPAR routine, register pair DE points at the start of the word list being examined and the two byte area POINTA holds an address of where to place the word number, if one is found. For example, if "take" is third in the list and the word "take" is present in the command, the value three will be placed in the address contained within POINTA. Throughout the code, register pair HL is used as a pointer to the command area, and more specifically, to the actual word being examined. The command area is scanned for the first word and the compare routine is called for each word type implemented. The register pair HL is then bumped along to the next word in the command area (if one exists) and the process is repeated. Comments included alongside the code should complete the description of exactly what the code does.

Command Farsing Routine

	ORG ENT	60000	assemble machine code at 60000 onwards entry point for Assembler execution
PARSE	YOR		7010100 111 1

LD	(VERB).A	zero	verb	flag
LD	(NOUN), A	zero	noun	rlag

;	etc.		
	LD	HL, COMMND	pointer to command area
CKVERB	LD	DE, VERB	address of verb number
	CP	A, (DE)	retrieve value if found yet
	JR	NZ.CKNOUN	has a verb been found yet? yes, ignore verb check and branch on
			save address of flag for this word type
	LD	DE. VBLIST	point DE at the verb list
		COMPAR	call compare routine
	CP	255	have I reached the end of the command?
	RET	255 Z	yes, return to main code (or BASIC, etc.)
CKNOUN		DE. NOUN	address of noun number
CKNOON	LD	A. (DE)	retrieve value if found yet
	CP	0	has a noun been found yet?
	JR	NZ.CKEND	yes, ignore noun check and branch on
	LD		save address of flag for this word type
	L.D	DE. NNLIST	point DE at the noun list
		COMPAR	call compare routine
	CP	255	have I reached the end of the command?
	RET	Z	yes, return to main code (or BASIC, etc.)
	CP	0	did I find a noun (any)?
	JR	NZ. CKVERB	yes, loop back because HL aiready bumped alon
			,,,,,,,,
CKEND	LD	A, (HL)	find current character in command area
	INC	HL	increment HL anyway
	CP	13	have I reached end of command yet?
	RET	Z	yes, return to main code (or BASIC, etc.)
	CP	32	have I found a space?
	JR	Z, CKVERB	yes, so loop back and check this next word
	JR	CKEND	keep bumping HL along to next space or end-of-input
			or end-or-inpot
;Compa	re co	de	
COMPAR		B, 4	prepare for upto 4 characters
	LD	C, 1	use register C as word count
CKSPAC		A, (HL)	obtain current character
	CP	32	is it a space?
	JR	NZ, COMLP2	no, must be at start of word so branch on
	INC	HL	bump along pointer
60277805030	JR	CKSPAC	loop back
COMLP2			save start position of current word on stack
COMLP1		A, (DE)	fetch current character from word list
	CP	42	is it an asterisk?
	JR	Z, EOWORD	yes, go find another word
	CP	32 (HL)	change value to represent uppercase chars compare accumulator with character pointed
	CF	(HL)	to by HL
	JR	NZ. UNEQAL	if unequal, take the jump
	INC	DE DE	increment pointer to word list
	INC	HL.	increment pointer to command input
		COMLF1	repeat above process for upto 4 times
	DOINE	COMET	repeat above process for opto 4 times
	matc	h, point HL	at next word
HLTIDY	FOP	DE	retrieve HL from stack but want to keep
			current HL
HLLOOF		A. (HL)	what is HL pointing to now
	INC	HL	increment HL anyway
	CP	32	is it a space:
	JE.	Z. EQUAL	yes, branch to label EQUAL
	CF	13	how about the end of input marker:
	JR	Z, EOCHD	yes, branch to label EOCMD

	JR	HLL00P	loop back (until HL repositioned)
EOWORD		A, (HL)	what is HL pointing at now
	CP	32	is it a space?
	JR	Z, HLTIDY	yes, need to update HL so jump to HLTIDY
	CP	13	how about the end of input marker?
	JR	NZ, UNEQAL	no, jump to UNEQAL to find another word
	POP	DE	remove HL from stack, but don't corrupt current HL
EOCHD	LD	DE, (POINTA)	obtain address of where to put result
	LD	A.C	reg. C is the word count
	LD	(DE).A	save value of C in address pointed to by DE
	LD	A. 255	set end-of-command flag
	RET		return to caller
EQUAL	LD	A.C	reg.C is the word count
	LD	DE, (POINTA)	obtain address of where to put result
	LD	(DE).A	save value of C in address pointed to by DE
	RET		
UNEQAL	LD	A, (DE)	retrieve current char. from word list
	INC	DE	increment pointer anyway
	CP	42	was DE pointing at an asterisk?
	JR	NZ, UNEQAL	no, loop back until find one
	POP	HL	retrieve pointer to start of current word of command
	INC	C	increment word count
	LD	A, (DE)	last check for end-of-word-list condition
	CP	255	found end of list marker?
	JR	NZ, COMLP2	no, rejoin compare loop

F

E

set reg. A to zero RET POINTA DEFU Ø define a 2 byte area (word) set to 0 VERR DEER @ verb flag NOUN DEFB 0 noun flag

DEFB 255 end of list marker NNLIST DEFM "painting\*chest\*bottle\*door\*mirror\*vial\*pearl\*axe\*" end of list marker

COMMND EQU (whatever) address of command input area

VBLIST DEFM "take\*drop\*examine\*open\*climb\*read\*go\*give\*"

As the code stands, the word lists above must contain an asterisk as the last character of the string, followed by a value 255. The command input area must also be terminated by a value 13. This was set in the sample input routine detailed in Part 2 of these articles.

Although this code only caters for verbs and nouns, introduction or modularity can easily expand it's abilities. The code between the two points marked "A" and "B" can be duplicated for as many word types as you care to use. The code simply needs to be repeated, and the appropriate pointers from the surrounding code need to change to cause riow through this code, and then with a couple of new fields towards the end of the code you will have introduced scope for adverbs, or adjectives and the like. The code as it stands contains no references to movement commands, such as "north". "south" and so on. These may be included in the verb lists, but also as a new word type as just described. You duplicate the code from "A" to "B" and add a new field such as: MVLIST DEFM "north\*south\*east\*west\*" and

XOR

DEER 255

:etc...

so on. What could be simpler?

To demonstrate this modularity, and also introduce the feature of conjunctions, I have prepared the following code which should be inserted after point "B". This code makes use of a further word list which contains the conjunctions "and" and "then".

address of conjunction number CKCONJ LD DE. CONJ (POINTA). DE save address of flag for this word type I.D LD DE. CJLIST point DE at the conjunction list CALL COMPAR call compare routine CP 255 reached end of command? RET 2 ves, return to main code (or BASIC, etc.) found any confunction; (if so, reg. A > 0) CP 0 no, branch on 10 Z. CKEND :Transfer commands... point at command input area DE. COMMND L.D find character being pointed to by HL ANDLP1 LD A. (HI.) save it at address held in DE LD (DE),A was it the end-of-input marker? CP 13 yes, return to main code (or BASIC, etc.) RET 2 increment pointer to command area INC DE

JR ANDLP1 CONJ DEFB Ø conjunction flag

HI. CJLIST DEFM "and\*then\*" DEER 255

INC

A further necessary code change would be to the JR NZ, CKEND within the CKNOUN part. This would have to be changed to JR NZ, CKCONJ. The CONJ flag would also have to be zeroised upon entry to the routine.

If either of the words "and" and "then" are found in a command. parsing is halted and all of the characters in the command to the right of the conjunction are shirted left to occupy the space of the words just parsed.

This facility can easily be accommodated in the main code by, for example:

A. (CONJ) conjunction flag L.D. CP 0

was a conjunction found at last parse? no, ask user for a new input call parsing routine

increment pointer to words past conjunction

CALL Z. INPUT CALL PARSE etc ...

This draws to a close my writings on parsing routines. this code has demonstrated several features of assembly languages which you find useful and I also hope to have shown the need (that I see) for more "user friendly" systems. At first glance, an assembly language program can lock horrendous, but with time you soon begin to appreciate their usefulness and how you can have complete control over



#### Investigating PAW

by Gerald T Kellett B.sc

The significant changes to PAU have been the additions of; the user overlays, the suittple PARSE (both these were my ideas incidentally the user data-Hunk standard and overlay (which though not my idea arose out of the need to have user definable Direction Pointer Table for TEL's MAP function) and the user transparent storage media for the model of the multiple PARSE has been available but undocumented from version AIO, it became a documented feature when the other three features were added at version AIO.

The user overlays provide for additional functions to be added to the editor, there are four at present, PAL-PHDSIS and MEGA in the PTM user overlay add-on, and overlay H the data-Hunk management overlay which is supplied with PAU. Overlay 2 is reserved for user's user overlays, the letters K, U and M have also been 'booked'.

Frior to the modification to allow multiple use of PARSE, only the first logical sentence oould be extracted, this meant you could not give more than one command at a time to other characters. Now it is possible to extract many sentences from text within double-quotes. However, unlike player input these must all be extracted in one time-frame, which requires that each sentence in turn is extracted and stored before extracting the mext one or returning to deal with direct multiple commands to other character difficulty of acting upon multiple commands to other characters and the profess all the actions he is instructed to do within one time-frame?

To store multiple PARSEd sentences requires the word-values in flags 33-36 and 43-47 (the word-flags) to be moved to other flags with COFFFF before performing another PARSE. To make this work userully for word-flags, requires the clusted and one still in the word-flags, requires the clusted and one still in the word-flags, requires the clusted and word-flags that word-flags are stored in them.

To act on these synchronously requires the first sentence stored to be moved back into the word-flags, and for each following sentence likewise in each subsequent time-frame until all are dealt with. The shift-register storage is used in what is termed a ring-register mode.

word-value last set of storage flags copy these last

Repeat after each FARSE and then do the following during a time-frame in which multiple PARSE is performed on for subsequent time-frames until all stored sentences are dealt with.

The user data-Nunk facility has many uses, it's primary function is to allow data for user overlays to be stored in a controlled and consistent manner within a database. It can also be used to include such things as a screen-dump routine for the Spectrum 43, or do do martis printer screen-dumps for ack users. These however must be produced in position independent code as a Hunk may now, unless that is installed each time as the first Hunk and no character sets as added.

You can also incorporate extra data to be used by EXTERNS, one idea was for an AUTOEXAmine function, with a table containing a number for each object which would be the number of the message containing additional into on each object or that of a "nothing special" message.

The user transparent storage media (tape/disk/microdrive cartridge) handling means that anyone producing user overlays does not (except in the case of verify) concern themselves as to what media is being used for loading and saving as they are all dealt with in a consistent manner.

There are handler for tape and +3 disk, 1'# fairly certain there ig me for 'obligical wases, the one for DPUS disk was tapped the third disk-drive was discontinued. There should have been one for third the third drive, but as I was promised a copy of this version when the became use it were the third thir

The only other PAN currently in existence is a text-only CP/M onefor CPC, PCU 0255/0512 and Spectrum \*3 of course, and any other 3 onedisk-using CP/M machines (the only one that springs to sind is the Tatung Einstein. The originally advertised CPC uresion was as far as I know the period of the course of the course of the course of the Language version of PAN and PCPAN (perhaps.)

As PAW-PMOSIS allows PAW users to build up a library of useful sub-processes, would there be any interest in having a central repository (or swap-shop) for the mutual collection and exchange of these? (Strictly user's own productions and no 'borrowing' from commercial gases would obtain a copy for the cost of materials, postage and packing, and handling. Any takers?



#### Useful addresses

If you have any other addresses you've found useful in the past, let me know and I'll include them in future issues.

AMI = Amiga ELE = Electron
ARC = Archimedes S48 = Spectrum range

#### OTHER ADVENTURE MAGAZINES

VAR: Claus Nygaard, Adventure Posten, Adventure Klubben, Vestergade 25A, 4930 Maribo, Denmark.

VAR: Handy Rodrigues, Adventure Probe, 24 Maes Y Cwm, Llandudno,

Gwynedd, LL30 1JE.
S48 tape: Hagic Missile, Futuresoft, 75 Ben Rhydding Road, Ilkley,

West Yorkshire, LS29 8RN.

VAR: Mike Brailsford, Spellbreaker, 19 Napier Place, South Parks,

ST disk: Syntax, 9 Warwick Road, Sidcup, Kent, DA14 6LJ.

#### ADVENTURE COLUMNISTS

Glenrothes, Fife, KY6 1DX.

VAR: Steve Cooke, Ace, Priory Court, 30-32 Farringdon Lane, London, EC1 3AU.

AMI: Dave Eriksson, Amiga Computing, Database Publications Ltd, Europa House, Adlington Park, Adlington, Macclesfield, SKi@ 4NP.

CPC: The Pilgrim, Amstrad Action, Future Publishing Ltd, 4 Queen Street, Bath, BA1 1EJ.

ST: Brillig, Atari ST User, Database Publications Ltd, Europa House, Adlington Park, Adlington, Macclesfield, SK10 4MP.

C64: Andy Moss, Commodore Computing International, Croftward Ltd, Finsbury Business Centre, 40 Bowling Green Lane, London, EC1R ONE.

C64: Gordon Hamlett, Commodore Disk User, Argus Specialist Publications Ltd, Argus House, Boundary Way, Hemel Hempstead, HP2 7ST.

C64/AMI: Keith Campbell, Commodore User, Priory Court, 30-32 Farringdon Lane, London, EC1 3AÚ.

VAR: Keith Campbell, Computer + Video Games, Priory Court, 30-32 Farringdon Lane, London, EC1 3AU.

ELE: Pendragon, Electron User, Database Publications Ltd, Europa House, Adlington Park, Adlington, Macclesfield, SK10 ANP.

VAR: Paul Rigby, The Games Machine, PO Box 10, Ludlow, Shropshire, SY8 1DB.

BBC: The Mad Hatter, The Micro User, Database Publications Ltd, Europa House, Adlington Park, Adlington, Macclesfield, SK10 4NP.

VAR: Tony Bridge, Popular Computing Weekly, Greencoat House, Francis Street, London, SWIP iDG.

S48: The Sorceress, Sinclair User, Priory Court, 30-32 Farringdon Lane, London, EC1 3AU.

Sa8: Mike Gerrard, Your Sinclair, 14 Rathbone Place, London, WIP 1DE. CGA/AMI: Prof Norman Nutz, ZZAP!, PO Box 10, Ludlow, Shropshire, SY6 1DB.

#### ADVENTURE COMPANIES

VAR: Alternative Software Ltd, Units 3-6, Baileygate Industrial Estate, Pontefract, West Yorkshire, WF6 2LN. Telex: 557994 RR DIST G Fax: (6977) 798243 Fel: (6977) 797777

VAR: Digital Dynamite, 54 Watermill Road, Fraserburgh, Grampian, Scotland, AB4 5RJ.

VAR: Mitch Pomfret, M.S.B Games, 2 Bude Close, Bramhall, Stockport, Chesire, SK7 2QP. (GAC)

VAR: (no utilities!) Mastertronic, 2-4 Vernon Yard, Portobello Road, London, Wil 2DX.

VAR: Rack-It, Hewson Consultants Ltd, 56B Milton Park, Abingdon, Oxon, 0X14 4RX. Tel: (0235) 832939

S48: John Wilson, Zenobi Software, 26 Spotland Tops, Cutgate, Rochdale, Lancashire, OL12 7NX.

ADVENTURE UTILITIES AND/OR ADD-ONS

S48: Camel Micros, Wellpark, Willeys Avenue, Exeter, Devon, EX2 8BE.

CPC: Roger Bankin, Graduate Software, 14 Forrester Avenue. Weston on Trent, Derbyshire, DE7 2HX.

VAR: Incentive Software Ltd, Zephyr One, Calleva Park, Aldermaston, Berkshire, RG7 4QW. Tel: (07356) 77288 Fax: (07356) 6940

VAR: Gilsoft International Ltd, 2 Park Crescent, Barry, South Glamorgan, CF6 8HD. Tel: (0446) 732765

S48: Gerald Kellett, Kelsoft, 28 Queen Street, Stamford, Lincolnshire, PE9 1QS.

CASSETTE DUPLICATORS

JBS Records, Freepost, 19 Sadlers Way, Hertford, SG14 2BR.

McGregor Tape Services, 42 Anchor Avenue, Paisley, PA1 1LD.

Simon Stable Productions, 20 West End, Launton, Oxon, OX6 ODF.

STATIONERY, PACKAGING AND PRINTING Launton Press Ltd, Wedgewood Road, Bicester, Oxon.

Millway, Chapel Hill, Stanstead, Essex.

S&M (Processing) Ltd, Gotts Road, Wellington Bridge, Leeds, LE12 1ES.

#### MAGNETIC MOON

In this 3 part, text only, science fiction adventure, your spaceship has been dengeed down onto a strange soon by a tractor beam, and now lies in the grip of a magnetic field, unable to take off. Your captain calls for volunteers to search for the source of the magnetic field, and you are one of the first to step forward. To your horsor, the captain refuses to let you go, saying that you are needed on board to help the 1st Lieutenant supervise regain? You want to get in on the action, and decide to lump skip and search for the source of the captain or the 1st lieutenant catching you...

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MAGNETIC MOON and STARSHIP QUEST = £9.99

#### Utilities available

If you know of any other utilities or add-ons, especially for computers such as the MSX and Atari 8-bits, whatever, please write in and help make this list a definitive guide.

AHI = Amiga CPC = Amstrad CPC range

ARC = Archimedes BBC - Acorn BBC Micro C64 = Commodore 64

PROGRAM NAME A-CODE

ADLAN ADVENTURE BUILDER SYSTEM ADVENTURE CONSTRUCTION SET ADVENTURE KERNEL SYSTEM ADVENTURE WRITER

ADVENTURESCAPE ADI. ADVSVS

ALPS AMIGAC? AMIGAVENTURE THE BIRD CHARACTER SETS CHARACTERS

DRAGON URITER DUNGEON BUILDER THE EXPANDER FONT CREATOR

THE FIX THE FIX+ GAC GAC+

GAC DATABASE PRINTER THE GACPAC GENESIS.

THE ILLUSTRATOR MEGA MINIFIX PATCH PAU PAU-PHOSIS

PAW-TEL PIC-FIX PRESS PTH QUAID

THE QUILL RECLAIMER SAGA . THE SCRIBE STAC

TAC TAILSFIN

DRG = Dragon 32 ELE = Electron MTR = Master S48 = Spectrum 48K ST = Atari ST range

COMPANY (COMPUTERS) COMMENT Level 9 (many) in-house utility only Graduate (CPC)

M & Richards (Sas) Electronic Arts (C64)

Melbourne House (AMS) book listing/tape Codewriter (C64) USA Quill

A&B (BBC) Public Domain (AMI) Public Domain (ST)

Alpine Software (BBC MTR ARC) Incentive (AMI) Where is it? Public Domain (AMI)

Ramjam Corporation (many) in-house/to loan Simicro (\$48) GAC Gilsoft (S48) Quill

Cowen (DRG) Dream (C6a) Gilsoft (S48) with FRESS

Simicro (S48) GAC Kelsoft (S46) Quill keisoft (Sa8) Quill - unreleased

Incentive (S48 AMS C64) Incentive (C64) disk-only Big Sky (C64)

Essential Myth (S48) GAC CRL/Camel Micros (S48) good band! Gilsoft (Sas AMS C64) Quill Gilsoft/Kelsoft (S48) PAW, part of PTM

Kelsoft (S48) Quill Gilsoft (S48) Quill Gilsott (S48 AMS PC) no C64/ST!

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Gilsort Kelsort (S48) 3 PAW overlays Kelsoft (S46) Quill Gilsort (S46 AMS C64)

Scott Adams (C64) not for sale! Your Spectrum (S48) listing Incentive (ST)

Kelsoft (Sa8) GAC

Incentive (EEC ELE) GAC without graphics Microdeal (S) AMI;